



# ODF 1.1 Interoperability Profile v1.0

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#### Related Work:

This specification is related to:

- [OASIS ODF v1.1](#)
- [OASIS ODF v1.2 part 1 CD04](#)

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N/A

#### Abstract:

This specifications describes an interoperability profile on top of ODF 1.1.

**Status:**

This document was last revised or approved by the OASIS OIC TC on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

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# 1 Introduction

ODF 1.1 is widely implemented, but there are areas where the specification is not clear or not complete. As a result of this ambiguity, interoperability issues arise when exchanging documents between different implementations.

ODF is also very flexible, leaving a great degree of freedom for implementing - or not implementing - certain features and using supplementary objects of various types. However, from an interoperability point of view, this flexibility calls for a common denominator. This document aims to clarify and formalize interpretations of the ODF 1.1 specification, by creating an Interoperability Profile.

This Interoperability Profile does not add new features to ODF 1.1 (although some implicit features may be clarified), nor does it remove existing conformance clauses. It does, however, add more conformance constraints.

## 1.1 Terminology

Within this specification, the key words "shall", "shall not", "should", "should not" and "may" are to be interpreted as described in Annex H of [ISO/IEC Directives] if they appear in bold letters.

Application in this context does not refer to a software product like an office suite. In this context, the broader term implementation is used instead of software product.

**ODF Implementation:** implementation using ODF as (a) storage format. This may be a general office suite or a specialist application and can be installed as part of a network service (like - but not limited to - a webbased editor) or as a stand-alone application on a computing device (like - but not limited to - a PC, netbook, PDA, cell phone...)

**ODF Document (ODF-Doc):** Conforming [ODF] document that may or may not conform to the Interoperability Profile outlined in this document

**ODF 1.1 Interoperability Profile Conformant Document (ODF1.1i-Doc):** Conforming [ODF 1.1] document that also conforms to the Interoperability Profile outlined in this document

**ODF 1.1 Interoperability Profile Conformant Producer (ODF1.1i-Prod):** ODF Implementation capable of producing ODF1.1i-Doc files and conforming to the Producer Conformance Clauses outlined in this specification.

**ODF 1.1 Interoperability Profile Conformant Consumer (ODF1.1i-Cons):** ODF Implementation capable of consuming ODF 1.1 files and conforming to the Consumer Conformance Clauses outlined in this specification.

**ODF 1.1 Interoperability Profile Conformant Implementation (ODF1.1i-Impl):** a ODF1.1i-Cons or ODF1.1i-Prod or a combination of both.

**User:** a human who or system that interacts with an ODF1.1i-Impl

## 1.2 Normative References

**[ISO/IEC Directives]** ISO/IEC Directives, Part 2 Rules for the structure and drafting of International Standards, International Organization for Standardization, 2004

**[ODF 1.1]** OASIS Standard, "OpenDocument Format for Office Applications (ODF) Version 1.1", February 2007. <http://docs.oasis-open.org/office/v1.1/OS/OpenDocument-v1.1-html/OpenDocument-v1.1.html>

**[ODF 1.2]** OASIS Committee Draft 04, "OpenDocument Format for Office Applications (ODF) Version 1.2, Part 1: Introduction and OpenDocument Schema", December 2009. <http://docs.oasis-open.org/office/v1.2/part1/cd04/OpenDocument-v1.2-part1-cd04.html>

**[OFF]** OASIS Committee Draft 01, "OpenDocument Format for Office Applications (ODF) Version 1.2, Part 2: Recalculated Formula (OpenFormula) Format", March 2009. <http://www.oasis-open.org/committees/download.php/36769/OpenDocument-v1.2-part2-cd01.zip>

## 1.3 Non-normative References

N/A

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## 2 Interoperability Profile for ODF 1.1

### 2.1 Conformance and interoperability

Conformance and interoperability are two distinct (but related) topics. It is assumed that increasing the number of strict conformance clauses improves interoperability by reducing the number of interpretations.

Therefore, this ODF 1.1 Interoperability Profile does not replace or remove any of the existing conformance clauses listed in [ODF 1.1]

### 2.2 Versions of the Interoperability Profile

Note that this document starts out rather small, but is expected to be updated frequently. Using this approach, one does not have to wait until the next version of the ODF specification arrives (a process that can take several years) to clear out the details of implementing [ODF 1.1].

This also means that, when referring to the Interoperability Profile as a normative reference, one should always mention the version number and date of approval of the Interoperability Profile.

Example (non-normative):

OASIS Specification, "ODF 1.1 Interoperability Profile v1.23", May 2010

### 2.3 Versions of Interoperability Profile and ODF specifications

Care shall be taken that new versions of this document do not contradict earlier versions of the Interoperability Profile and/or the [ODF 1.1] itself.

Whenever feasible, the Interoperability Profile shall make use of clarifications and/or additional conformance clauses within [ODF 1.2]. That is, if they can be applied to [ODF 1.1] without violating requirements of [ODF 1.1] or the Interoperability Profile.

### 2.4 Conformance clauses

The rest of this document consists of conformance clauses.

---

## 3 Conformance

### 3.1 General clauses

Conformance:

- (G1-1) ODF1.1i-Doc **shall** conform to all "shall" requirements of [ODF 1.1]
- (G1-2) ODF1.1i-Doc **shall** conform to all ODF1.1i-Doc "**shall**" requirements of this Interoperability Profile
- (G1-3) ODF1.1i-Impl **shall** conform to all ODF1.1i-Impl "**shall**" requirements of this Interoperability Profile specification
- (G1-4) ODF1.1i-Cons **shall** conform to all ODF1.1i-Cons "**shall**" requirements of this Interoperability Profile specification
- (G1-5) ODF1.1i-Prod **shall** conform to all ODF1.1i-Prod "**shall**" requirements of this Interoperability Profile specification
- (G1-7) ODF1.1i-Prod **shall** produce ODF1.1i-Doc when instructed by the User

Conformance when using / converting ODF-Doc:

- (G2-1) ODF1.1i-Impl **may** inform the User that an ODF-Doc is not a ODF1.1i-Doc
- (G2-2) ODF1.1i-Impl **may** convert ODF-Doc to ODF1.1i-Doc, when doing so the ODF1.1i-Impl **shall** follow the steps outlined in the "Conversion conformance (ODF-Doc to ODF1.1i-Doc)" sections of this Interoperability Profile
- (G2-3) ODF1.1i-Impl converting ODF-Doc to ODF1.1i-Doc **shall** inform the User when this conversion may lead to data loss, unless the User has specifically instructed the ODF1.1i-Impl to do a silent conversion

### 3.2 Specific clauses

The numbering (between parentheses) of the following specific clauses matches the numbering of the [ODF 1.1] specification.



### 3.2.1 Document Processing and Conformance (Section 1.5)

Conformance:

- (S1.5-1) ODF1.1i-Impl **shall** preserve the elements and element content within the `<office:meta>` element unless specifically instructed otherwise by the User

### 3.2.2 MIME Types and File Name Extensions (Section 1.7)

Conformance:

- (S1.7-1) ODF1.1i-Doc **shall** be contained in a package.
- (S1.7-2) ODF1.1i-Doc **shall** contain the MIME-type as outlined in Appendix C of the [ODF 1.1] specification.
- (S1.7-3) ODF1.1i-Doc files **shall** be stored using the filetype extensions outlined in Appendix C of the [ODF 1.1] specification.

### 3.2.3 Document Roots (Section 2.1)

Conformance:

- (S2.1-1) ODF1.1i-Doc **shall** be represented as a collection of several subdocuments within a package
- (S2.1-2) ODF1.1i-Doc **shall** contain at least the `<office:document-content>`, `<office:document-styles>` and `<office:document-meta>` subdocuments.

### 3.2.4 Document Root Attributes – Version (Section 2.1.2)

Conformance:

- (S2.1.2-1) ODF1.1i-Doc **shall** contain an `office:version` attribute, which value **shall** be "1.1"

### 3.2.5 Pre-Defined vs Custom Metadata (Section 2.2.1)

Conformance:

- (S2.2.1-1) ODF1.1i-Impl **shall** preserve all `<meta:user-defined>` elements within `<office:meta>` unless specifically instructed otherwise by the User, even if the ODF1.1i-Impl does not support those user defined metadata elements

### 3.2.6 Pre-Defined Metadata Elements (Section 3.1)

Conformance:

- (S3.1-1) within the <office:meta> element, ODF1.1i-Doc **shall not** contain more than one <dc:title>, <dc:description>, <dc:subject>, <meta:initial-creator>, <dc:creator>, <meta:creation-date>, <dc:date>, <meta:template>, <meta:auto-reload>
- (S3.1-2) ODF1.1i-Impl **shall** preserve the content of all <meta:keyword> and <meta:user-defined> elements unless specifically instructed otherwise by the User
- (S3.1-3) ODF1.1i-Prod **shall** provide the User a means to create/read/update/delete the content of all <meta:keyword> elements
- (S3.1-4) ODF1.1i-Prod **shall** provide the User a means to create/read/update/delete the content of the <dc:title>, <dc:description> element
- (S3.1-5) ODF1.1i-Cons **shall** provide the User a means to read the content of all <meta:keyword> elements

Conversion conformance (ODF-Doc to ODF1.1i-Doc):

- (S3.1-6) within the <office:meta> element, ODF1.1i-Impl **shall** preserve the content of only the last <dc:title>, <dc:description>, <dc:subject>, <meta:initial-creator>, <dc:creator> and <meta:creation-date> elements

### 3.2.7 Generator (Section 3.1.1)

Conformance:

- (S3.1.1-1) ODF1.1i-Doc **shall** contain exactly one <meta:generator> element.
- (S3.1.1-2) The (text string) contents of this element **shall** match the definition for user-agents as specified in section 14.43 of RFC 2616 and **shall** include name and version information identifying the last ODF producer that persisted the document.
- (S3.1.1-3) ODF1.1i-Prod **shall** provide an identifier string as outlined above.

Conversion conformance (ODF-Doc to ODF1.1i-Doc):

- (S3.1.1-4) ODF1.1i-Impl **shall** remove all <meta:generator> elements and **shall** add one <meta:generator> element as described above

### 3.2.8 Keywords (Section 3.1.5)

Conformance:

- (S3.1.5-1) ODF1.1i-Prod **shall** provide the User a means to create/read/update/delete the content of all <meta:keyword> elements
- (S3.1.5-2) ODF1.1i-Cons **shall** provide the User a means to read the content of all the <meta:keyword> elements

### 3.2.9 Initial Creator (Section 3.1.6)

Conformance:

- (S3.1.6-1) when creating a new document, ODF1.1i-Prod **shall** either set the content of the `<meta:initial-creator>` automatically, or provide the User a means to create the content

### 3.2.10 Editing Duration (Section 3.1.17)

Conformance:

- (S3.1.17-1) ODF1.1i-Impl supporting `<meta:editing-duration>` **shall** interpret the meaning of "total time spent editing the document" in [ODF 1.1] as "total accumulated wall clock time spent editing the document"
- (S3.1.17-2) ODF1.1i-Impl **may** assume that 1Y equals 365D and 1M equals 30D
- (S3.1.17-3) ODF1.1i-Prod supporting `<meta:editing-duration>` **shall** not produce durations containing non-zero year (Y) or month (M) components
- (S3.1.17-4) ODF1.1i-Cons supporting `<meta:editing-duration>` **shall** be able to parse durations where the year (Y) component is zero (0) and **shall** be able to parse durations where the month (M) component is zero (0)

### 3.2.11 Change tracking (Section 4.6)

Conformance:

- (S4.6-1) ODF1.1i-Cons that do not support change tracking **shall** hide the content of `<text:tracked-changes>` element from the User

### 3.2.12 Table Cell – Formula (Section 8.1.3)

Conformance:

- (S8.1.3-1) ODF1.1i-Doc `table:formula` attribute values **shall** begin with a namespace prefix specifying the syntax and semantics used within the formula, the formula itself **shall** begin with an equal sign (=)
- (S8.1.3-2) ODF1.1i-Doc formula function parameters **shall** be enclosed within round brackets
- (S8.1.3-3) ODF1.1i-Impl supporting formulas **shall** support at least the limits mentioned in [OFF] 3.6 Basic Limits

Conversion conformance (ODF-Doc to ODF1.1i-Doc):

- (S8.1.3-4) ODF1.1i-Impl **shall** preserve the value of `table:formula` attribute if the formula belongs to a namespace not supported by the ODF1.1i-Impl, unless the table cell value has been changed by the User
- (S8.1.3-5) ODF1.1i-Cons supporting formulas **may** treat formulas not beginning with a namespace prefix as an [OFF] formula

[

Conformance once [OFF] is approved:

- (S8.1.3-6) ODF1.1i-Doc **shall** only contain [OFF] in `table:formula` attributes
- (S8.1.3-7) ODF1.1i-Cons supporting formulas **shall** support [OFF], they **may** treat formulas not beginning with a namespace prefix as an [OFF] formula
- (S8.1.3-8) ODF1.1i-Prod supporting formulas **shall** use the [OFF] namespace mentioned in [OFF] 1.3 Namespace

]

### 3.2.13 Objects - Object Data (Section 9.3.3)

Conformance:

- (S9.3.3-1) ODF1.1i-Doc `<draw:object>` elements using the `xlink:href` attribute to link to a subpackage, **shall** use a trailing slash in the value of this attribute
- (S9.3.3-2) ODF1.1i-Doc `<draw:object>` elements **should** contain at least one [SVG] or [PNG] preview image
- (S9.3.3-3) ODF1.1i-Impl supporting objects, **shall** support linking to objects contained in the same package
- (S9.3.3-4) ODF1.1i-Cons supporting the object **shall** consume this object instead of the preview image(s) if the `<draw:object>` does not contain at least one preview image which format is supported by the ODF1.1i-Cons. It is up to the ODF1.1i-Cons to select which of the preview images is/are used when the `<draw:object>` contains multiple supported preview images.

Conversion conformance (ODF-Doc to ODF1.1i-Doc):

- (S9.3.3-5) if the object is stored in a subpackage, ODF1.1i-Cons supporting the object **shall** be able to consume the subpackage regardless if the `xlink:href` attribute of the `<draw:object>` element has a trailing slash or not

### 3.2.14 Plot Area (Section 10.5)

Conformance:

- (S10.5-1) ODF1.1i-Cons **shall** ignore the `table:cell-range-address` attribute on a `<chart:plot-area>` element if that element contains one or more `<chart:series>` elements with a non-empty `chart:values-cell-range-address` attribute

### 3.2.15 Series (Section 10.9)

Conformance:

- (S10.9-1) ODF1.1i-Doc `<chart:series>` elements **shall** have a non-empty `chart:values-cell-range-address` attribute



### 3.2.16 Control Implementation (Section 11.4.2)

Conformance:

- (S11.4.2-1) ODF1.1i-Cons supporting form controls **shall not** solely depend of the value of the `form:control-implementation` attribute for representing the form control. That is, if the ODF1.1i-Cons does not support the concrete rendition specified in the value of this attribute, the ODF1.1i-Cons **shall** use its own rendition based upon the element name as a fallback mechanism

### 3.2.17 Annotations (Section 12.1)

Conformance:

- (S12.1-1) ODF1.1i-Doc `<office:annotation>` elements **shall** contain a non-empty `<dc:creator>` and a non-empty `<dc:date>` element
- (S12.1-2) when creating a new `<office:annotation>`, ODF1.1i-Prod supporting annotations **shall** either set the content of the `<dc:creator>` and `<dc:date>` attributes automatically, or provide the User a means to create the content
- (S12.1-3) ODF1.1i-Prod supporting annotations **shall** provide the User a means to create / read / update / delete the content of `<text:p>` and `<text:list>` elements within a `<office:annotation>` element
- (S12.1-4) ODF1.1i-Cons supporting annotations **shall** provide the User a means to read the content of the `<dc:creator>`, `<dc:date>`, `<text:p>` and `<text:list>` elements within a `<office:annotation>` element

### 3.2.18 Creation Date and Time String (Section 12.1.3)

Conformance:

- (S12.1.3-1) ODF1.1i-Cons **shall** ignore the `<meta:date-string>` element within `<office:annotation>` elements when that element contains a non-empty `<dc:date>` element

### 3.2.19 Line-Through Type (Section 15.4.6)

Conformance:

- (S15.4.6-1) See 15.4.7

### 3.2.20 Line-Through Style (Section 15.4.7)

Conformance:

- (S15.4.7-1) ODF1.1i-Doc `<style:text-properties>` elements **shall not** have a `style:text-line-through-style` attribute when they have a `style:text-line-through-type` attribute with value "none"
- (S15.4.7-2) ODF1.1i-Doc `<style:text-properties>` elements **shall have** a `style:text-line-through-style` attribute when they have a `style:text-line-through-type` attribute with a value other than "none"
- (S15.4.7-3) ODF1.1i-Cons **shall** ignore the `style:text-line-through-style` attribute on `<style:text-properties>` elements when the `style:text-line-through-type` attribute is not present, empty or set to "none"

This is in line with [ODF 1.2] 19.364

### 3.2.21 Encryption (Section 17.3)

Conformance:

- (S17.3-1) ODF1.1i-Cons supporting encryption **shall** at least accept passwords containing between 1 (inclusive) and 16 (inclusive) characters
- (S17.3-2) ODF1.1i-Prod supporting encryption **may** impose stricter limits on passwords

### 3.2.22 MIME Type Stream (Section 17.4)

Conformance:

- (S17.4-1) ODF1.1i-Doc packages **shall** contain an uncompressed stream called "mimetype", this stream **shall** be the first stream of the package's zip file

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## Appendix A. Acknowledgments

The following individuals have participated in the creation of this specification and are gratefully acknowledged

### Participants:

- Andreas Guelzow, Individual
- Andrew Rist, Oracle
- Bart Hanssens, Fedict
- Bernd Eilers, Sun
- Daniel Rentz, Sun
- Dennis Hamilton, Individual
- Louis Suarez-Potts, Sun
- Rob Weir, IBM

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## Appendix B. Non-Normative Text

### Implementation specific defaults

(Note that this is **not** about the default attribute values in the XML schema, nor about the elements within `<office:settings>`)

ODF Implementations like office suites may use implementation specific defaults, especially for layout purposes.

For example:

- a chart application may automatically use a implementation specific set of colors for displaying different bars and lines in charts. When the user opens this chart in another implementation, the bars and lines may have a different color.
- a text application may display text using left-to-right or right-to-left writing mode, depending on the language of the paragraph, or based upon the locale settings of the system etc. When the user opens this ODF-Doc in another implementation, the text might be displayed in another direction if the Producer doesn't write out a `style:writing-mode` value and the Consumer does not recognize the language.

The user may or may not be pleased with this result. However, without a user-specific action it is not possible to determine if one merely wants to save the data into an ODF-Doc and let the consuming ODF Implementation use its own defaults, or one wants to preserve some or all of these implicit settings.

For maximum interoperability and flexibility:

- an ODF1.1i-Prod may want to ask the user if some (or all) implementation specific settings should be stored in the ODF-Doc
- the ODF1.1i-Cons should use the settings in the ODF-Doc, unless the user has previously instructed the implementation to override these settings in a general way (e.g. always applying a "theme", or using a high-contrast color set when opening a document)
- the User should still be able to override these settings on a per-document basis

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## Appendix C. Revision History

Changes marked with "OIC": see <http://tools.oasis-open.org/issues/browse/OIC-<number>>

- wd 1: creation
- wd 2:
  - using ISO/IEC keywords instead of IETF's
  - editorial corrections
  - removed printed-by/print-date (needs more thinking)
  - added OIC-5, OIC-6, OIC-7
- wd 3:
  - added 17.4 MIME stream, 12.1 Annotations
- wd 3b:
  - OIC-26, OIC-27
- wd 4:
  - added "supporting ..." prerequisite where applicable
  - added password length
  - added "keep table:formula"
  - added change tracking
- wd 5:
  - added paragraph on flexibility in Introduction
  - corrected typos
  - split 8.1.3 Table formula in pre- and post-OFF approval
  - added "conversion conformance"
- cd1 rev 1:
  - added version to title
  - added notion that ODF1.1i-Impl, ODF1.1i-Cons and ODF1.1i-Prod shall conform to all requirements
  - OIC-32, OIC-34, OIC-35, OIC-37
- cd1 rev 2:
  - added link to Jira in Appendix B
  - OIC-42, OIC-44, OIC-45, OIC-46, OIC-47, OIC-51, OIC-2, OIC-55, OIC-56, OIC-57
- cd1 rev 3:

- corrected date in footer
- [ODF 1.2] now refers to ODF 1.2 CD 04
- clarify 11.4.2 a bit more + fix typos
- OIC-36, OIC-49, OIC-50, OIC-53
- cd1 rev 4 (=cd 2):
  - added hyperlinks and trademarks on cover
  - added numbering conformance clauses
  - OIC-43
- cd2 rev 1
  - changed ODF11... into ODF1.1...
  - updated reference
  - added numbering
- cd2 rev 2
  - added links to normative references
  - add full name for OFF